

**Request to Archive
With The National Centers for Environmental Information
For Hourly Precipitation Data (HPD)
Provided by NWS/OCWWS**

2016-08-12

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

David Wuertz

DOC/NOAA/NESDIS/NCEI > National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce

Physical Scientist

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Please coordinate contact with Bryant Korzeniewski. He can filter the questions over to Jay Lawrimore and Dave Wuertz until it's absolutely necessary to contact either one of them. Thanks!

2. Name the organization or group responsible for creating the dataset.

DOC/NOAA/NESDIS/NCEI > National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The Hourly Precipitation Dataset consists of data from the NWS Fischer-Porter Network as well as data from the NWS HADS system, ASOS, USCRN, and USRCRN. The data are quality controlled by a suite of automated algorithms that combine checks on the daily and hourly time scale. Data and metadata are ingested on a daily basis and combined in a single integrated dataset. These data are formatted consistent with CSD (Climate Science Division) practices for NCEI Global In-situ datasets and accessible via ftp. This dataset also includes 15 minute data for the NWS Fischer-Porter Network only.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1948-01-01

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

1.0

6. Approximate date when the dataset was or will be released to the public:

2016-09-30

7. Who are the expected users of the archived data? How will the archived data be used?

Forecast and hydrologic community along with multiple private sector users.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

Dataset will undergo evaluation by the CWC Science Council.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

This replaces the DSI-3240/60 Legacy datasets. Complements other datasets such as GHCN-Daily.

10. List the input datasets and ancillary information used to produce the data.

GHCN-Daily data used as part of quality control process. Metadata from the master station history record is used to identify stations that are operating.

- NWS Digital HPD Network 15-Minute Data (FPR-D, FPR-E and FPU Log Files) → packaged up by NWS WFO's into Zip Files and uploaded to <ftp.ncdc.noaa.gov/pub/upload>, then Authoritative Copy picks them up and provides them into our Ingest Process
- Legacy HPD TD3240 (Hourly Data) → Dataset Documentation PDF that outlines its format
- From HOMR at <https://www.ncdc.noaa.gov/homr/> , file provided by Product Section's Metadata Team called `mshr_coop_crn_asos.txt` (is referred to as the MSHR-COOP-CRN-ASOS Report and is updated with the Metadata Team's EOM, End-Of-Month, Reports)

11. List web pages and other links that provide information on the data.

Basic station information such as station name, identifier(s), location, etc.

NCEI's Historical Observing Metadata Repository (HOMR) at <https://www.ncdc.noaa.gov/homr/>

NCEI's Climate Data Online (CDO) Website at <https://www.ncdc.noaa.gov/cdo-web/>

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. Dataset Description Document (ATBD)
2. Data flow diagrams (Level 0 and Level 1)
3. ORR Checklist and related items.

13. Indicate the data file format(s).

1. ASCII

14. Are the data files compressed?

gzip

15. Provide details on how the files are named and how they are organized (e.g., `file_name_pattern_YYYYMM.tar` in monthly aggregations).

As of 8/11/2016, follows similar to the GHCN-Daily File convention (e.g. USW00093981.hly; .hly instead of .dly) and there's a file for every available station and the file contains its respective Period-Of-Record.

Tar File Unknown or TBD (Need Archives Branch to provide Dave and Jay what the tar file needs to be named as).

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

The data files are available on hpd-dev. Once operational they also will be available via ftp.

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 7GB

Number of Data Files: 2000

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

There may be version updates in the future. The updates will follow the normal process for updating versions; minor, moderate or major version updates.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: NCEI-NC, Asheville, NC

System Name: hpd-prod.ncdc.noaa.gov

System Owner: NCEI/CWC/CSD (Climate Science Division)

Additional Information: Dave says hpd-dev.ncdc.noaa.gov is what he's currently using.
Should we keep this as hpd-prod.ncdc.noaa.gov? Dave thinks hpd-prod doesn't yet exist; there's hpd-test, he believes?

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Advanced web services (e.g., THREDDS Catalog Service)

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

A National Weather Service network of hourly and 15-minute precipitation data operating since 1950. Serves the forecast and hydrological community as well as private sector users.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

Service Level Agreement between NCEI and NWS.

26. Do you have a data management plan for your data?

The data management plan is documented as part of the ORR process. There is not a specific titled 'data management plan', but the process of maintaining the system and data is included in the ORR documentation.

27. Have funds been allocated to archive the data at NCEI?

Base funding

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

NWS Fischer-Porter Network

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2016-10-31

Accessible by:

30. Add any other pertinent information for this request.

Refer to the ORR documentation for additional information on the dataset and associated processes.